

Title (en)
Bearing device for drive wheel of a vehicle

Title (de)
Lagereinheit für ein Antriebsrad eines Kraftfahrzeuges

Title (fr)
Ensemble de palier pour une roue d'entraînement d'un véhicule

Publication
EP 1179440 A3 20031008 (EN)

Application
EP 01306321 A 20010723

Priority
JP 2000243175 A 20000810

Abstract (en)
[origin: EP1179440A2] A bearing device for a drive wheel is provided with improved strength of coupling a hub wheel (10) and an outer joint member (40) without significantly raising the manufacturing cost. The bearing device for a drive wheel includes the hub wheel (10), a constant velocity universal joint (30) and bearings (20) arranged in inner races (12,42), the hub wheel (10), the universal joint (30) and the bearings (20) being unitized, at least the inner race (42) being formed in the outer joint member (40) of the constant velocity universal joint (30). In the bearing device (20), the hub wheel (10) and the outer joint member (40) are meshed with each other by way of serrations (53,55) and coupled to each other by caulking. Undulations of serrations at near a caulked section (63) being filled with plastic deformed part (69) caused by the caulking. <IMAGE>

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B60B 27/00

IPC 8 full level
B60B 27/00 (2006.01); **F16D 1/072** (2006.01); **F16D 3/223** (2006.01)

CPC (source: EP US)
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Citation (search report)
• [Y] US 4893960 A 19900116 - BEIER RUDOLF [DE], et al
• [Y] US 4986607 A 19910122 - HOFMANN HEINRICH [DE], et al
• [A] EP 0873883 A2 19981028 - KOYO SEIKO CO [JP]
• [DY] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08 30 June 1999 (1999-06-30)

Cited by
EP2105322A3; CN100366936C; US2014349773A1; US10161460B2; EP2908019A4; EP1398181A3; CN111278662A; EP2127902A4; EP1398181A2; US8313244B2; US8944694B2; US7677127B2; US8100775B2; US8393974B2

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